

Oncology Clinical Pathways

Bladder Cancer

May 2022, V2.2022



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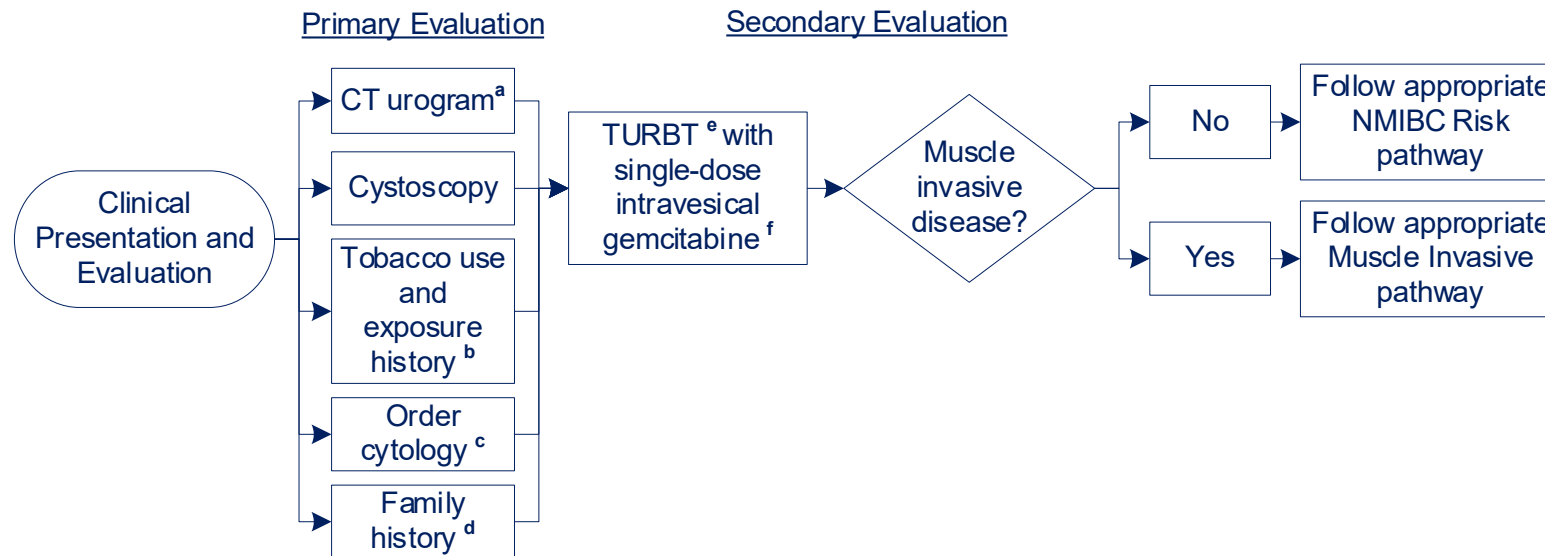
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Bladder Cancer – Clinical Presentation and Evaluation



Clinical trial(s) always considered on pathway.

^a In patients unable to receive IV contrast, order alternative upper tract imaging.

^b **Exposure** Agent Orange, burn pits, and other occupational/environmental toxins.

^c **Cytology** order if results would change clinical management

^d **Family History** family or personal malignancy history, suspicion for Lynch syndrome; age under 60 years

^e **TURBT** Transurethral Resection of Bladder Tumor (TURBT) with Exam Under Anesthesia (EUA) and blue-light cystoscopy if clinically appropriate

^f **Intravesical gemcitabine** for known or presumed low grade



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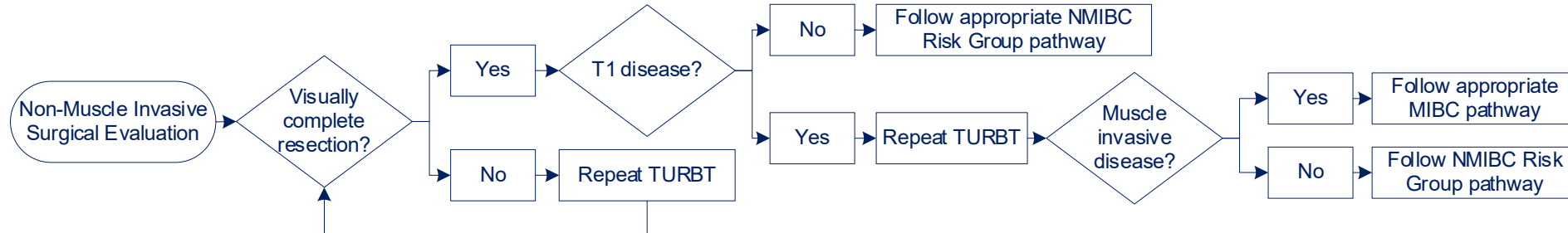
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Bladder Cancer – Non-Muscle Invasive Surgical Evaluation

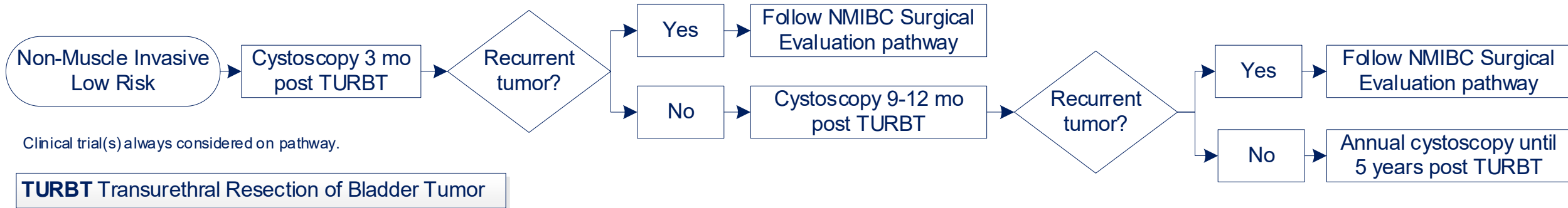


| American Urological Association Non-Muscle Invasive Risk Stratification | | |
|--|---|--|
| Low Risk | Intermediate Risk | High Risk |
| <ul style="list-style-type: none"> Papillary urothelial neoplasm of low malignant potential <p>Or</p> <ul style="list-style-type: none"> Low grade urothelial carcinoma <ul style="list-style-type: none"> Ta and ≤3 cm and Solitary | <ul style="list-style-type: none"> Low grade urothelial carcinoma <ul style="list-style-type: none"> T1 or >3 cm or Multifocal or Recurrence within 1 year <p>Or</p> <ul style="list-style-type: none"> High grade urothelial carcinoma <ul style="list-style-type: none"> Ta and <3 cm and Solitary | <ul style="list-style-type: none"> High grade urothelial carcinoma <ul style="list-style-type: none"> CIS or T1 or >3 cm or Multifocal <p>Or</p> <ul style="list-style-type: none"> Very high risk features (any) <ul style="list-style-type: none"> BCG unresponsive Variant histologies ^a Lymphovascular invasion Prostatic urethral involvement |

^a **Variant histologies** includes micropapillary, nested, plasmacytoid, neuroendocrine, sarcomatoid, squamous or glandular predominant.

TURBT Transurethral Resection of Bladder Tumor

Bladder Cancer – Non-Muscle Invasive Low Risk



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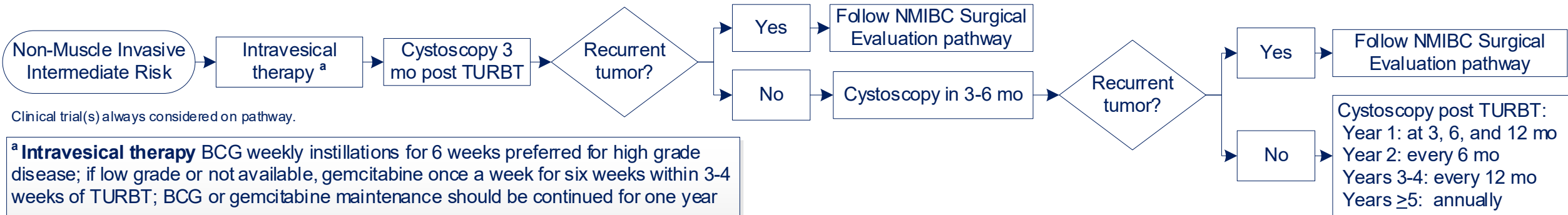
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Bladder Cancer – Non-Muscle Invasive Intermediate Risk



TURBT Transurethral Resection of Bladder Tumor



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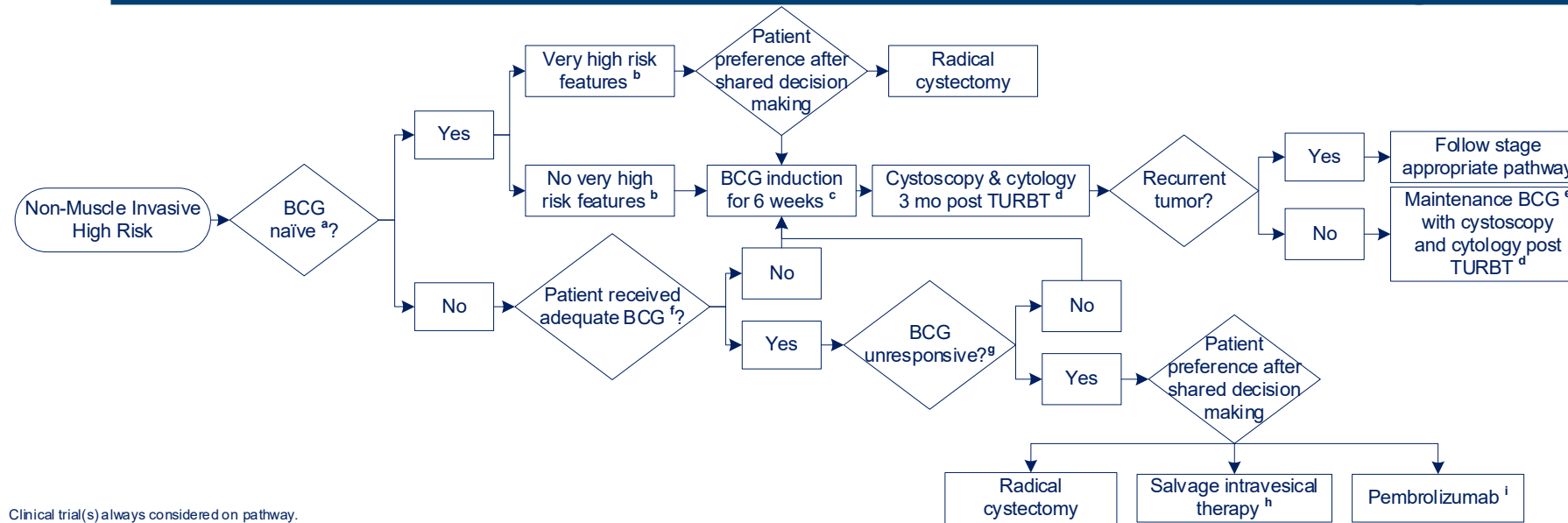
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Bladder Cancer – Non-Muscle Invasive High Risk



Clinical trial(s) always considered on pathway.

^a **BCG naïve** BCG non-exposed or greater than one year since last BCG

^b **Very high risk features** include BCG unresponsive, variant histologies, lymphovascular invasion, or prostatic urethral invasion

^c **BCG Induction** only one repeat induction BCG course

^d **Cystoscopy and Cytology Post TURBT** surveillance schedule: years 1-2: every 3 months; years 3-4: every 6 months; years ≥ 5 : annually

^e **BCG maintenance** 3 week instillations at 3, 6, 12, 18, 24, 30, and 36 months (3 years) after start of induction BCG

^f **Adequate BCG** ≥ 5 induction doses and ≥ 2 maintenance doses

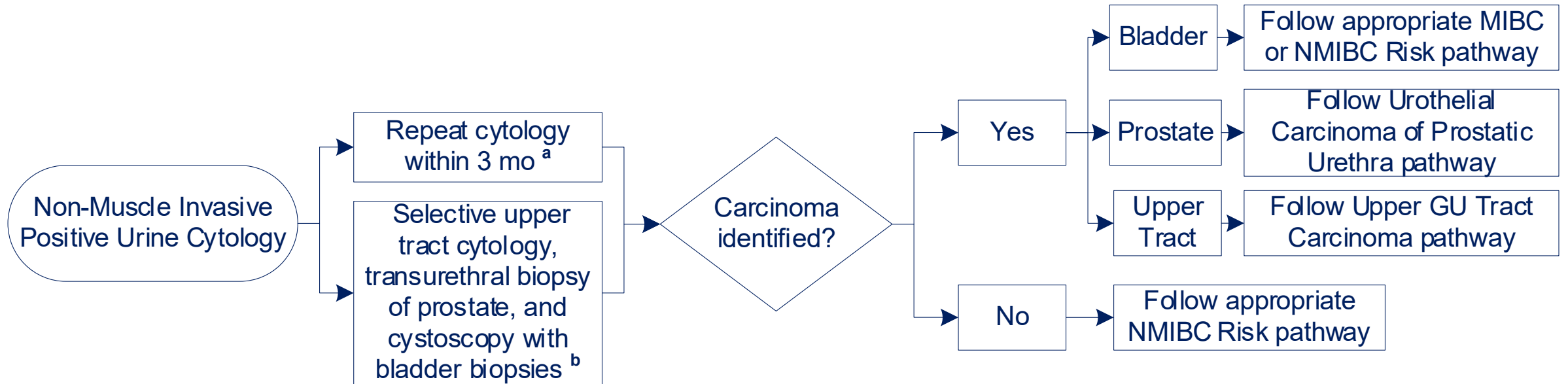
^g **BCG unresponsive** Persistent high-grade disease or recurrence within 6 months of receiving at least 2 courses of intravesical BCG (at least 5 of 6 induction and at least 2 of 3 maintenance doses of BCG)

^h **Salvage intravesical therapy** gemcitabine and docetaxel preferred

ⁱ **Pembrolizumab** indicated for treatment of patients with BCG-unresponsive, high-risk NMIBC with Tis tumors who are ineligible for or have elected not to undergo cystectomy

TURBT Transurethral Resection of Bladder Tumor

Bladder Cancer – Non-Muscle Invasive Positive Urine Cytology

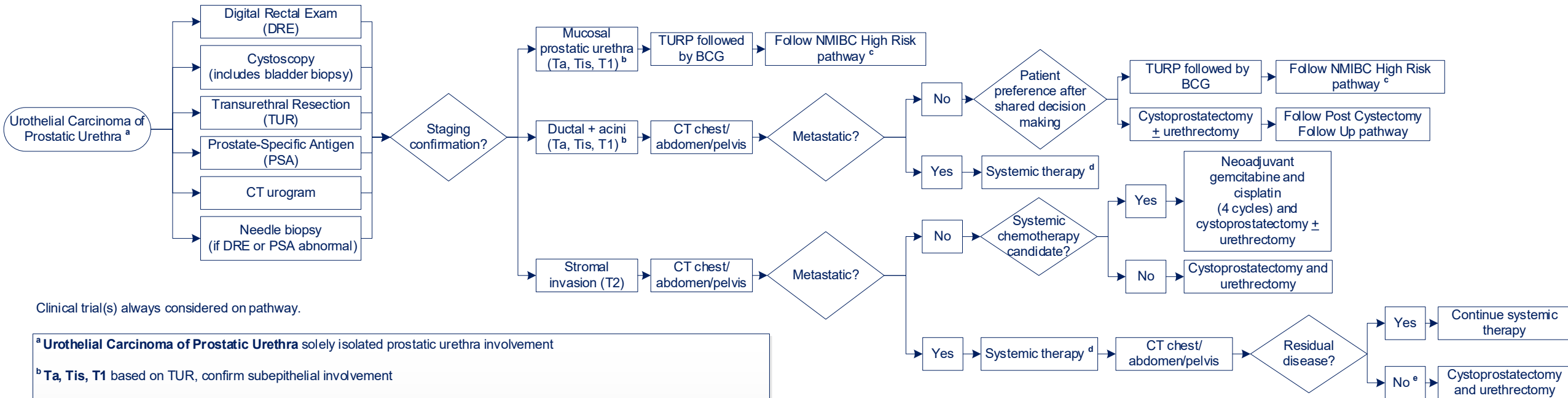


Clinical trial(s) always considered on pathway.

^a **Cytology** Review clinical history with cytopathologist

^b **Cystoscopy** Use enhanced technology if available

Bladder Cancer – Urothelial Carcinoma of Prostatic Urethra



Clinical trial(s) always considered on pathway.

^a **Urothelial Carcinoma of Prostatic Urethra** solely isolated prostatic urethra involvement

^b **Ta, Tis, T1** based on TUR, confirm subepithelial involvement

^c **Cystoscopy and Cytology Post TURBT** 6 months; surveillance schedule: years 1-2: every 3 months; years 3-4: every 6 months; years ≥5: annually

^d **If cisplatin eligible**, prescribe gemcitabine and cisplatin followed by avelumab maintenance therapy; **if cisplatin ineligible**, prescribe gemcitabine and carboplatin followed by avelumab maintenance therapy

^e **If only prior pelvic metastatic disease**, reimaging with PET to ensure no metastatic disease prior to proceeding with surgery



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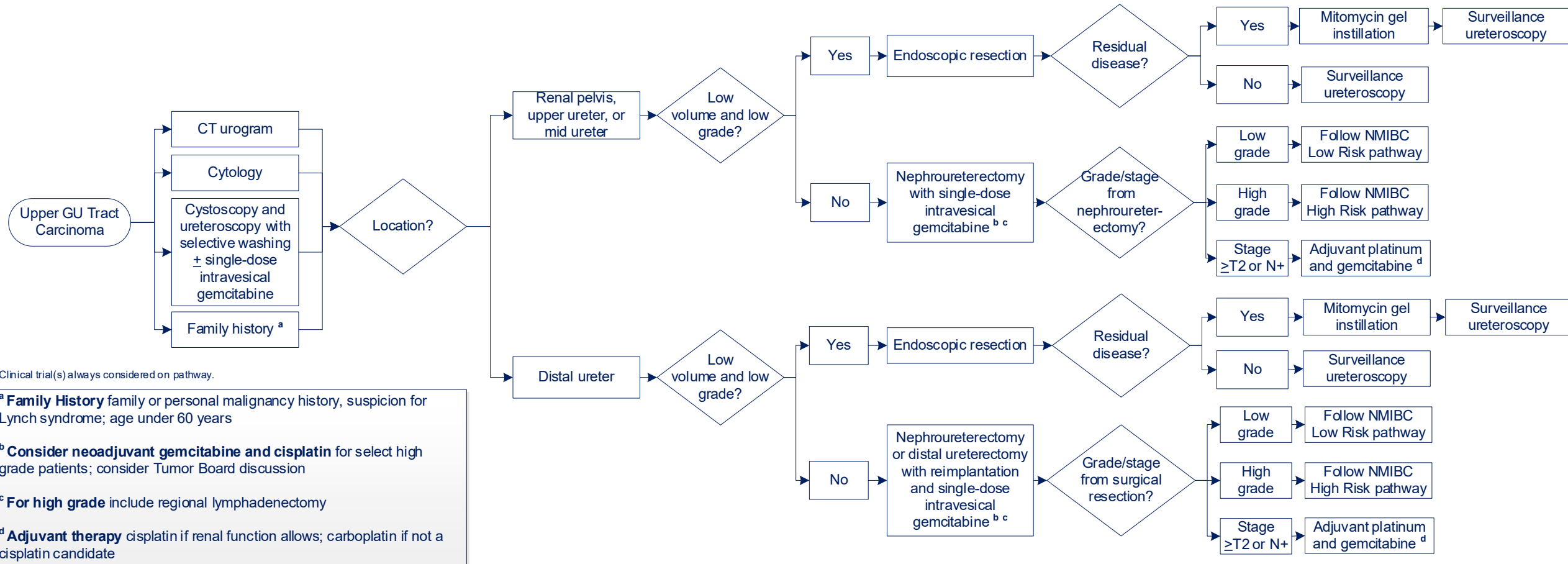
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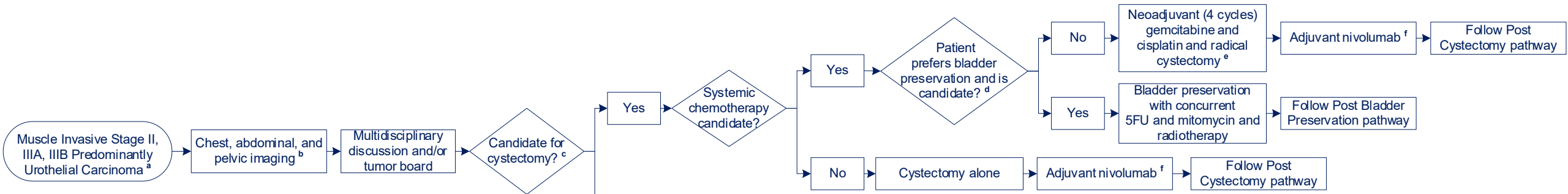


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Bladder Cancer – Upper GU Tract Carcinoma



Bladder Cancer – Muscle Invasive Stage II, IIIA, IIIB Predominantly Urothelial Carcinoma



Clinical trial(s) always considered on pathway.

^a If predominantly squamous cell carcinoma or adenocarcinoma, consider cystectomy or radiation as no proven role for adjuvant/neoadjuvant chemotherapy for pure squamous cell carcinoma of bladder; if predominantly small cell, follow appropriate SCLC Pathway

^b Imaging perform bone scan if clinically indicated

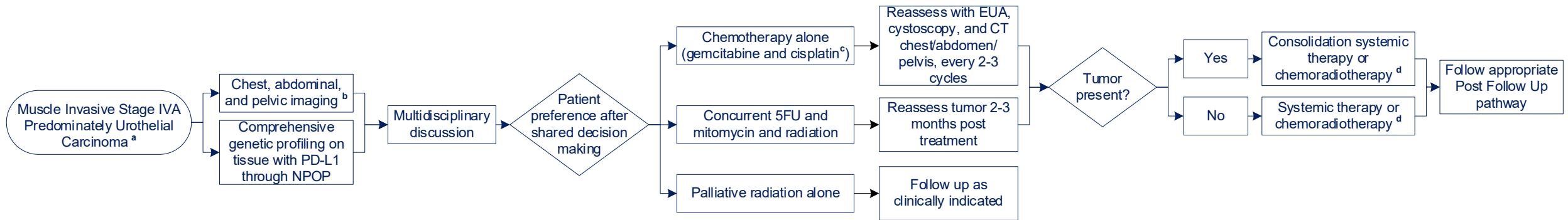
^c Patients with clinical node positive disease should have resolution of adenopathy post chemo to become eligible for cystectomy

^d Candidate Avoid bladder preservation in patients with hydronephrosis and extensive or multifocal carcinoma in situ

^e Consider Platinum-based chemotherapy (4 cycles) if not given as neoadjuvant

^f Adjuvant nivolumab for patients at high risk for recurrent MIBC following radical cystectomy with negative margins regardless of PD-L1 status

Bladder Cancer – Muscle Invasive Stage IVA Predominately Urothelial Carcinoma



Clinical trial(s) always considered on pathway.

^a If **predominantly squamous cell carcinoma or adenocarcinoma**, consider cystectomy or radiation as no proven role for adjuvant/neoadjuvant chemotherapy for pure squamous cell carcinoma of bladder; if **predominantly small cell**, follow appropriate SCLC Pathway

^b **Imaging** perform bone scan if clinically indicated

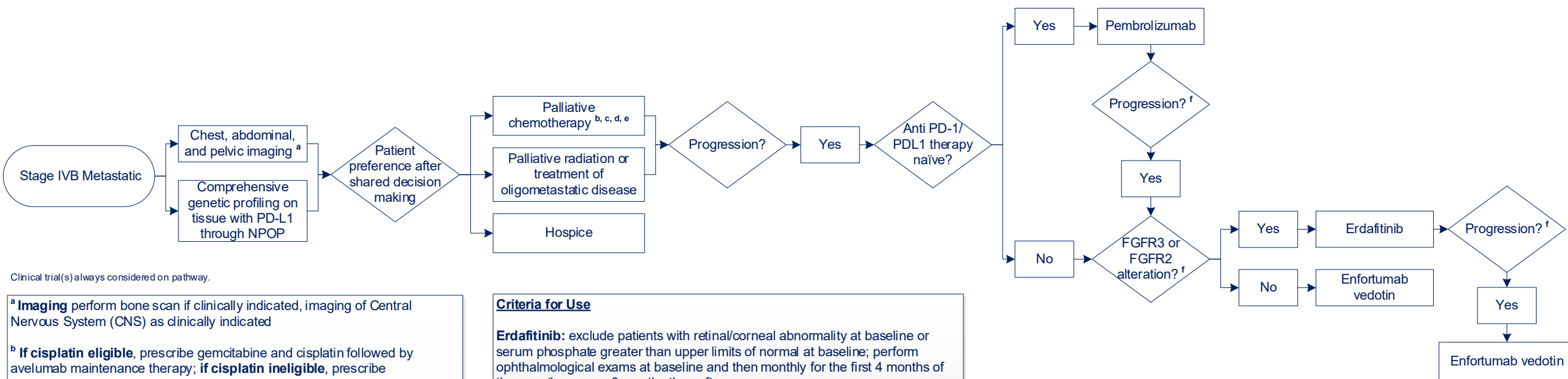
^c If **patient not a cisplatin candidate**, recommend carboplatin

^d If **no previous** radiation therapy and/or cystectomy

EUA Exam Under Anesthesia

NPOP National Precision Oncology Program

Bladder Cancer – Stage IVB Metastatic



Clinical trial(s) always considered on pathway.

^a **Imaging** perform bone scan if clinically indicated, imaging of Central Nervous System (CNS) as clinically indicated

^b If **cisplatin eligible**, prescribe gemcitabine and cisplatin followed by avelumab maintenance therapy; if **cisplatin ineligible**, prescribe gemcitabine and carboplatin followed by avelumab maintenance therapy

^c If **patient progresses on initial platinum-based chemotherapy** prior to avelumab, recommend pembrolizumab

^d If **not a platinum-based chemotherapy candidate**, recommend pembrolizumab

^e **Consider** platinum-based chemotherapy if not previously given

^f If **patient not a candidate for these therapies**, consider hospice and/or palliative radiation

NPOP National Precision Oncology Program

Criteria for Use

Erdafitinib: exclude patients with retinal/corneal abnormality at baseline or serum phosphate greater than upper limits of normal at baseline; perform ophthalmological exams at baseline and then monthly for the first 4 months of therapy, then every 3 months thereafter

Enfortumab Vedotin: exclude patients with preexisting neuropathy \geq Grade 2, baseline ocular disorders, or uncontrolled diabetes at baseline

Bladder Cancer – Post Cystectomy Follow Up

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 5-10 | Year >10 |
|------------------------------|--------------------------|--|---------------------------------------|--|--------|--------|-------------------------------|----------------------------|
| Post Cystectomy Follow Up | Imaging NMIBC | CT urogram at 3 &12 mo | Annual CT urogram | | | | Annual renal ultrasound | As clinically indicated |
| | Imaging MIBC | CT chest and CT urogram every 3-6 mo | | Annual CT chest/abdomen/pelvis | | | Annual renal ultrasound | As clinically indicated |
| | Blood Tests | CMP &CBC every 6 mo | Annual CMP and B ₁₂ levels | | | | Annual B ₁₂ levels | |
| | Urine Tests | Urine cytology every 6-12 mo; consider urethral wash every 6-12 mo | | Urine cytology as clinically indicated Urethral wash cytology as clinically indicated | | | | |



Bladder Cancer – Muscle Invasive Post Bladder Preservation Follow Up

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 5-10 | Year >10 |
|--|--------------------|--------------------------------------|------------|--|--------|----------|-------------------------|-------------------------|
| <div>Muscle Invasive Post Bladder Preservation Follow Up</div> | Cystoscopy | Every 3 mo | | Every 6 mo | | Annually | | As clinically indicated |
| | Imaging | CT chest and CT urogram every 3-6 mo | | Annual CT chest/abdomen/pelvis | | | As clinically indicated | |
| | Blood Tests | CMP & CBC every 6 mo | Annual CMP | | | | | |
| | Urine Tests | Urine cytology every 6-12 mo | | Urine cytology as clinically indicated | | | | |



Questions?

Contact VHAOncologyPathways@va.gov



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